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Resistance.

Effects of the addition of chromium oxide on the prop-
erties of glass were studied with three kinds of base
glass, determining specific gravities, thermal ex-
pansions, and chemical durabilities. Maximum
amounts of chromium oxide with which clear glass
could be obtained were different by different kinds of
base glass, being 8.5 weight percent of chromium
oxide in a sodalime-silica glass and 5 percent in a
soda-silica glass. (Author)
(Materials--Ceramics, TT, v. 8, no. 5)

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I. Maruyama, R.
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C 222656

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63-18623

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TREATMENT OF MOLTEN IRON BY ELECTROLYZING IT WITH MOLTEN SLAG. REPT. 3. INOCULATION OF THE TREATED IRON. [1963] [27]p. (foreign text included) 17 refs.

Available from SLA on loan

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I. Maruyama, M.
II. Title: Inoculation

Trans. of Imono (Japan) 1958, v. 30, no. 1, p. 37-45.

DESCRIPTORS: *Iron, *Slags, Melting, Electrolytes, Electrochemistry, Graphite, Iron alloys, Castings, Electrolysis, Eutectics, Cooling, Microstructure, Calcium, Desulfurization.

A2477(1)

Kish graphite spherodized in high carbon cast iron which was treated by electrolyzing molten slag, but eutectic graphite incompletely coagulated and precipitated in kish graphite, so that the treated iron had the mixed structure of eutectic fine graphite and pseudo flaky graphite. (Metallurgy--Structural, TT, v. 10, no. 8) (over)

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TT-64-10532

Maruyama, Masuteru and Ito, Mitsuru.
MALLEABLE CAST IRON TREATED WITH CAL-
CIUM SILICIDE. [1963] [14p] (foreign text included)
2refs
Order from SLA \$1.60

TT-64-10532

Trans. of Imono (Japan) 1960, v. 32, no. 4,
p. 261-267. (Abstract available)

DESCRIPTORS: *Iron alloys, *Castings, Calcium
compounds, Silicides, Melting, Chemical analysis,
Graphite, Thermal expansion,

By treatment with calcium silicide, the first and
second stages of graphitization were remarkably
accelerated and, with the same amount of silicon,
these rates were several times the ones of plain pig
iron. Pig iron treated with calcium silicide was able
to graphitize even with a silicon content under 0.5%.
It was difficult, however, to have molten iron treated
with calcium silicide solidify white in sand molds.
(Author)

I. Maruyama, M.
II. Ito, M.

(Metallurgy--Ferrous Metals,
IT, v. 11, no. 5)

Office of Technical Services

TT-64-10511

Maruyama, Masuteru and Chida, Hiroyuki.
EFFECTS OF CALCIUM ON THE CAST IRON
MOLTEN UNDER VACUUM. [1963] 123p] (foreign
text included) 12 refs
Order from SLA \$2.60

TT-64-10511

Trans. of Imono (Japan) 1958, v. 30, no. 11,
p. 880-886. (Abstract available)

DESCRIPTORS: *Iron alloys, *Castings, *Additives,
Calcium, Melting, Vacuum furnaces, Microstructure,
Chemical analysis.

Unlike Mg, Ca is one of the graphitizing agents. The
graphitizing action of Ca is due to its direct effects and
not due to the indirect ones caused by deoxidation
thereby. When Ca addition is employed for the purpose
of bringing about graphite spheroidization in low-
carbon pig iron, it is desirable to keep the silicon con-
tent of the iron as low as possible so long as it does not
(Metallurgy--Ferrous Metals, TT, v. 11, no. 10)(over)

I. Maruyama, M.
II. Chida, H.

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Manufacture of Caustic Soda by the Electrolysis
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Hideo Maruyama, Tantan Shweta, 1979
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No 7, pp 723-727
CIA 12-69-10073

Hideo Maruyama

Sol - Eng
June 67

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Effect of Treatment of Malicious Case from
Calcium Silicide, by M. Maruyama, M. Ito.
JAPANESE, per. Imono, Vol 32, No 4, Apr 1960,
pp 261-267.
HD 5459

M. Maruyama

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Maruyama, Masuteru and others.
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RATE OF PEARLITE. [1963] [7p] (foreign text
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Order from SLA \$1.10

TT-64-10530

Trans. of Imono (Japan) 1958, v. 30, no. 9, p. 667-668.

DESCRIPTORS: *Pearlite, *Decomposition, *Calcium,
Iron alloys, Carbon alloys, Silicon alloys, Castings,
Quantitative analysis, Carbonization, Calcium com-
pounds, Silicides, Lead, High temperature research.

(Metallurgy, TT, v. 11, no. 9)

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1. Title: Decarburization
1. Maruyama, M.

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Comparative Biochemistry of Contractile Proteins.
Interaction With ATP, by K. Maruyama, 32 pp.

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Measuring Instruments for Industrial Meteorology,
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No 24, 1957, pp 365-370.

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Measuring Instruments for Production Meteorology,
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